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17901A HONEST JOHN MISSILE NUMBER 2817 792 ROUND NUMBER 1/1

HJ676ASL HJ677ASL..(U) ARMY ELECTRONICS RESEARCH AND  
DEVELOPMENT COMMAND WSMR NM ATM.. D C KELLER SEP 83

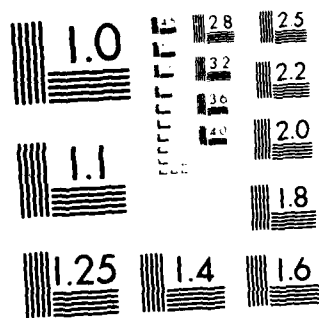
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A134507

METEOROLOGICAL DATA REPORT

17901A Honest John  
Missile Number 2817, 792  
Round Number HJ676ASL, HJ677ASL  
14 September 1983

by

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ATMOSPHERIC SCIENCES LABORATORY  
WHITE SANDS MISSILE RANGE, NEW MEXICO

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 17901A Honest John, Missile Number 2817, 792, Round Number HJ676ASL, HJ677ASL are presented in tabular form.		

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## INTRODUCTION

17901A Honest John, Missile Numbers 2817, and 792, Round Numbers HJ 676ASL and HJ677ASL, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1005 and 1118 MDT, 14 Sept 83. The scheduled launch times were 1000, and 1115 MDT.

## DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

### 1. Observations

#### a. Surface

(1) Standard surface observations to include pressure, temperature ( $^{\circ}\text{C}$ ), relative humidity, dew point ( $^{\circ}\text{C}$ ), density ( $\text{gm}/\text{m}^3$ ), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 Minutes.

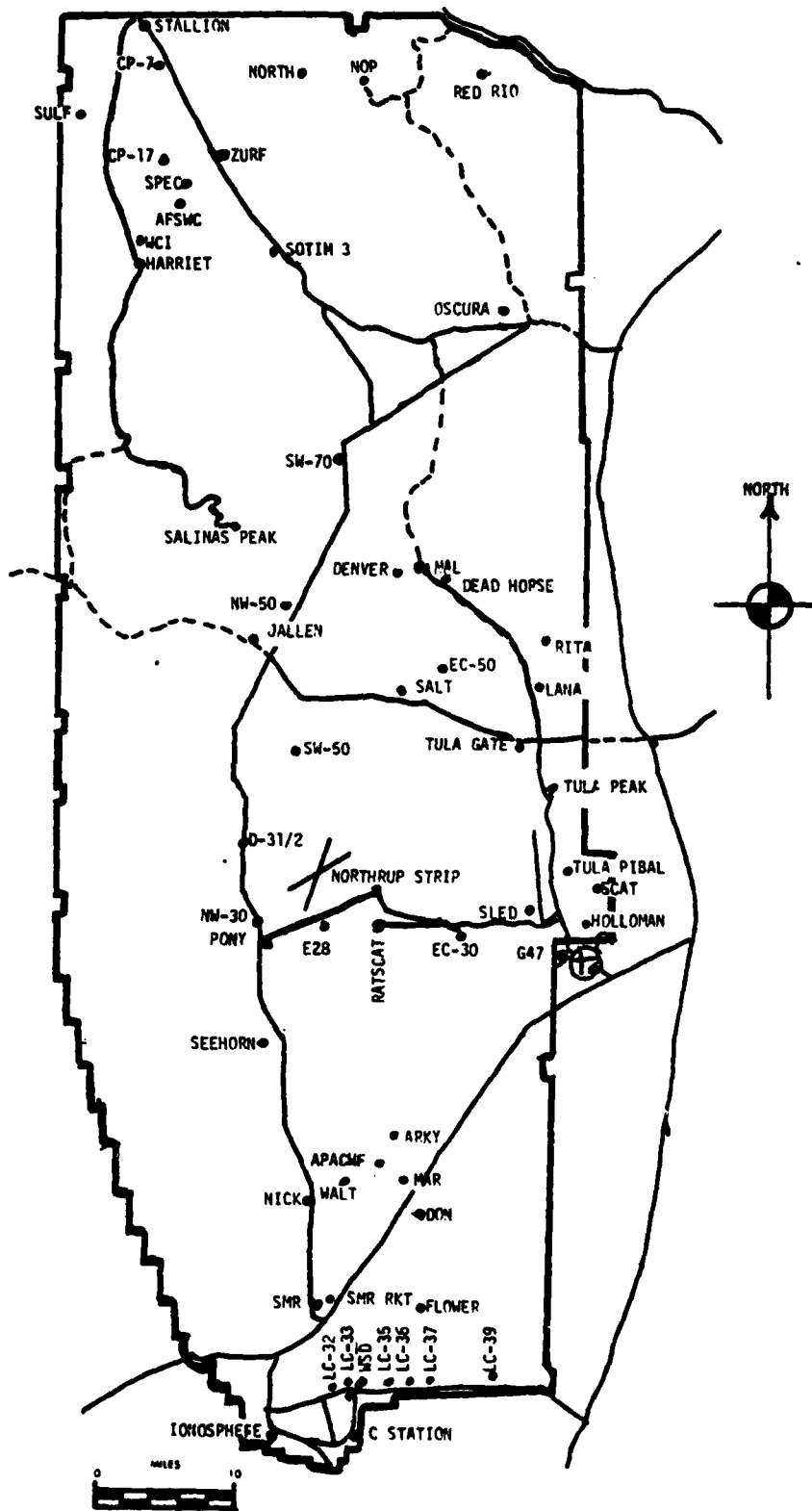
(2) Anemometer data were provided from existing towermounted anemometers at LC-33. Monitor of wind speed and direction from on anemometer was also provided in the launch control room.

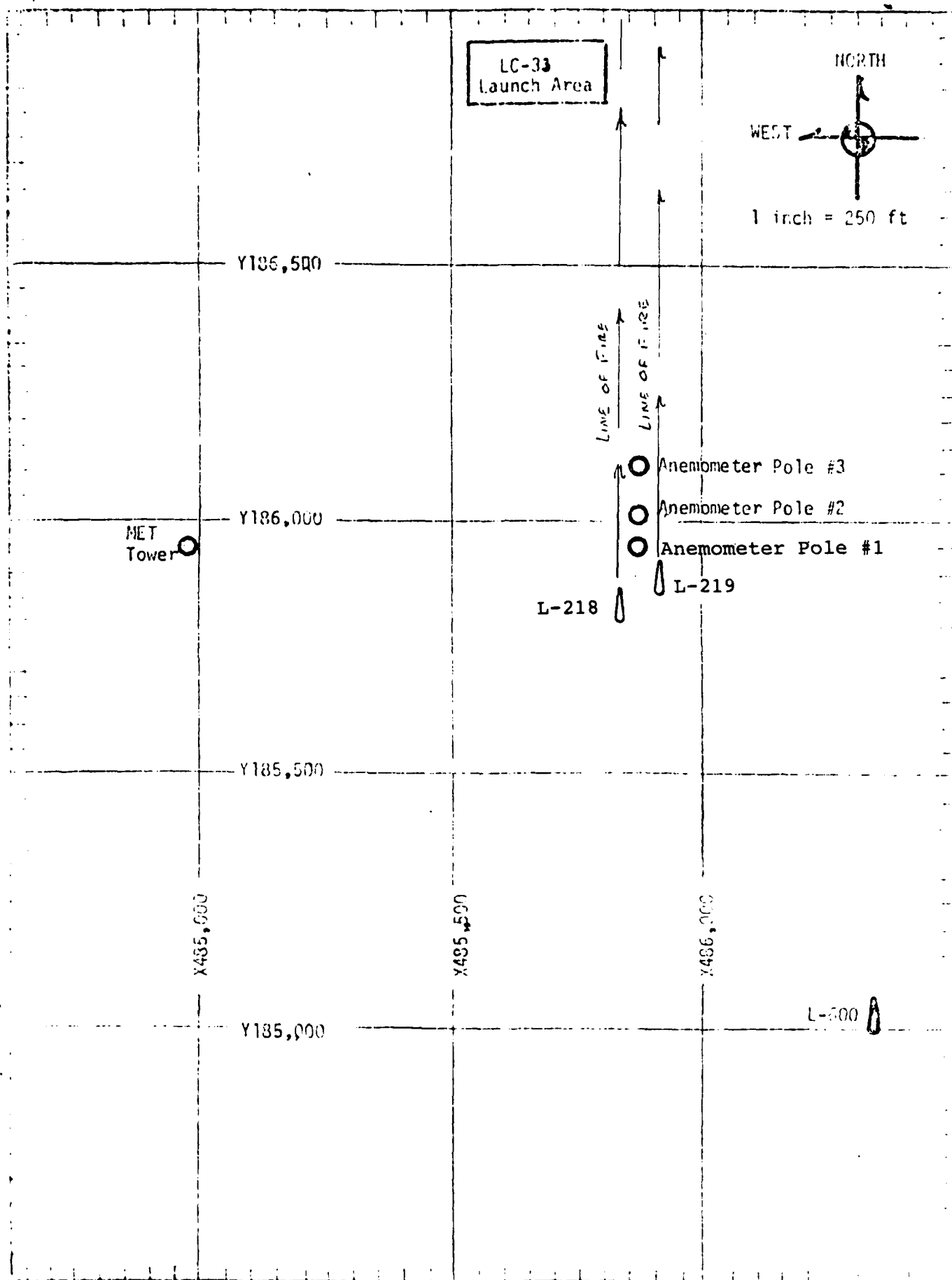
b. Upper Air- Air structure data (rawinsonde) were collected at the following Met Sites.

## SITE AND TIME

WSD 0700 MDT  
LC-37 0900 MDT  
WSD 1000 MDT  
LC-37 1119 MDT

# WSMR METEOROLOGICAL SITES





# PROJECT SURFACE OBSERVATION

TABLE 1 STATION LC-33 R&A

DATE 14 DAY SEP MONTH 83 YEAR

X= 484.982.64 Y= 185.957.73 H= 3095.00

TIME M D L	PRESSURE mbs	TEMPERATURE OF OC	DEW POINT OF OC	RELATIVE HUMIDITY %	DENSITY gm/m <sup>3</sup>	WIND		VISIBIL- ITY
						DIRECTION degs In	SPEED kts	
1005	885.5	23.8	14.7	57	1033.4	041	01	50
1119	885.1	25.6	15.0	52	1026.6	144	03	40

OBSTRUCTIONS TO VISIBILITY	CLOUDS						REMARKS
	1st LAYER		2nd LAYER		3rd LAYER		
	AMT	TYPE	AMT	TYPE	AMT	TYPE	
	6	SC	6,500	3	AC	10,000	H ALQDS
	6	SC	6,500	3	AC	11,000	H ALQDS

## PSYCHROMETRIC COMPUTATION

TIME: MDT	1005	1119
DRY BULB TEIP.	23.8	25.6
WET BULB TEIP.	17.7	17.7
WET BULB DEPR.	6.1	7.2
DEW POINT	14.7	15.0
RELATIVE HUMID.	57%	52

LC-33 METEOROLOGICAL TOWER  
ANEMOMETER MEASURED WIND DATA

WSTM COORDINATES X=484,982.64 Y=185,957.73 H=3983.00(BASE)

TABLE NO. 2

DATE 14 Sep 1983 1005 M D T  
DAY MONTH YEAR TIME

LEVEL #1 12 FT AGL			LEVEL #2 62 FT AGL		
T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)
T-30		CALM	T-30	092	03
T-20	068	02	T-20	092	03
T-10	056	02	T-10	096	03
T- 0 (1st T)	041	01	T- 0 (1st T)	108	04
T+10		CALM	T+10	111	04
T+20	END OF DATA		T+20	END OF DATA	
T+30			T+30		
T+40			T+40		
T+50			T+50		
T+60			T+60		

LEVEL #3 102 FT AGL			LEVEL #4 202 FT AGL		
T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)
T-30	090	03	T-30	099	06
T-20	092	03	T-20	102	07
T-10	093	04	T-10	105	07
T- 0 (1st T)	099	05	T- 0 (1st T)	114	06
T+10	082	03	T+10	120	06
T+20	END OF DATA		T+20	END OF DATA	
T+30			T+30		
T+40			T+40		
T+50			T+50		
T+60			T+60		

LC-33 METEOROLOGICAL TOWER  
ANEMOMETER MEASURED WIND DATA

WSTM COORDINATES X=484,982.64 Y=185,957.73 H=3983.00(BASE)

TABLE NO. 3

DATE 14 Sept 83 1119 M D T  
DAY MONTH YEAR TIME

LEVEL #1 12 FT AGL			LEVEL #2 62 FT AGL		
T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)
T-30	147	04	T-30	117	03
T-20	143	04	T-20	107	02
T-10	138	03	T-10	108	01
T- 0 (1st T)	144	03	T- 0 (1st T)	116	01
T+10	132	03	T+10	141	02
T+20	END OF DATA		T+20	END OF DATA	
T+30			T+30		
T+40			T+40		
T+50			T+50		
T+60			T+60		

LEVEL #3 102 FT AGL			LEVEL #4 202 FT AGL		
T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)
T-30	105	03	T-30	096	03
T-20	096	03	T-20	072	03
T-10	090	02	T-10	113	03
T- 0 (1st T)	078	01	T- 0 (1st T)	111	04
T+10	088	01	T+10	110	03
T+20	END OF DATA		T+20	END OF DATA	
T+30			T+30		
T+40			T+40		
T+50			T+50		
T+60			T+60		

Table 4

AIMING AND T-TIME BALLISTIC MET MESSAGE DATA

14 September 1983

WSD 0700 MDT  
METB31324064  
141300122856  
002801020856  
012309025852  
022215026852  
032614026852  
042914025853  
053112026854  
063307029854

LC-37 0900 MDT  
METB31325064  
141500124847  
002404029847  
012203028848  
022307027849  
032707026850  
043109027851  
053507027851  
063506028852

WSD 1000 MDT  
METB31324064  
141600122838  
002704042838  
012607036844  
022504030848  
032406027851  
042909027852  
053206028853  
063506028854

LC-37 1119 MDT  
METB31325064  
141730124833  
000000047833  
012304036842  
022506034844  
032607031846  
042906029848  
053406029849  
063707032850

GEODETIC COORDINATES  
32.40043 LAT DEG  
106.37033 LON DEG

SIGNIFICANT LEVEL DATA  
570020436  
WHITE SANDS

TABLE 5

STATION ALTITUDE 37.9.0 FEET MSL  
14 SEP. 50  
ASCENSION NO. 436 0700 MDT

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
804.8	18.3	13.6	74.0
874.2	19.7	14.9	73.0
890.0	18.3	14.0	76.0
911.6	15.2	13.9	92.0
911.6	11.6	11.1	97.0
900.0	8.3	6.3	87.0
675.0	7.8	5.5	74.0
628.0	3.8	2.2	78.0
571.8	3.3	-4.7	69.0
526.4	-1.6	-15.4	34.0
500.4	-3.4	-9.6	67.0
531.0	-4.0	-13.4	46.0
514.0	-5.8	-14.0	52.0
500.0	-7.7	-14.3	55.0
489.4	-8.3	-17.0	47.0
473.4	-10.1	-16.0	54.0
467.0	-11.6	-15.0	76.0
441.8	-13.8	-15.6	86.0
419.0	-15.6	-13.5	78.0
411.4	-16.5	-20.7	70.0
400.0	-18.4	-26.4	49.0
396.6	-19.3	-38.7	16.0
374.7	-21.3	-40.5	16.0
360.7	-22.2	-43.0	13.0
319.7	-27.8	-47.6	13.0
300.0	-31.5	-50.6	13.0
262.0	-39.1	-56.9	13.0
237.0	-41.4		
223.2	-47.5		
200.0	-52.4		
173.7	-58.0		
150.7	-63.0		
142.3	-65.5		
126.1	-69.1		
115.6	-69.0		
100.0	-72.9		
85.9	-70.3		
70.0	-55.1		
66.2	-64.0		
61.2	-58.1		

GEODETIC COORDINATES  
32.40041 LAT DEG  
106.17333 LON DEG

SIGNIFICANT LEVEL DATA

470020436  
WHITE SANDS

TABLE 5 Con't

STATION ALTITUDE 3229.70 FEET MSL  
14 SEP. 83  
ASCENSION NO. 436 0700 MDT

PRESSURE MILLIBARS MSL FEET	GEOMETRIC ALTITUDE	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES CENTIGRADE	DEWPOINT PERCENT	
27.9	67717.8	-58.9		
29.0	68891.2	-57.1		
32.9	73659.7	-52.4		
30.0	79777.8	-50.9		
26.6	82377.5	-49.3		
27.0	88655.6	-42.2		
16.4	93120.0	-39.6		
17.3	97622.2	-44.1		

STATION ALTITUDE 395.00 FEET MSL  
14 SEP 52  
ASCENSION NO. 43c

UPPER AIR DATA  
27002043A  
WHITE SANDS

GEODETIC COORDINATES  
32.40741 LAT DEG  
106.37033 LON DEG

TABLE 6

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
395.00	954.8	15.5	74.0	1050.5	667.3	160.0	1.0	1.000304
400.00	884.5	15.6	74.0	1049.9	667.4	158.0	1.1	1.000304
450.00	869.0	17.0	73.6	1026.7	649.0	139.6	5.0	1.000303
500.00	853.8	15.0	75.5	1012.3	667.8	137.5	9.0	1.000296
550.00	838.7	17.4	80.6	998.3	666.5	136.7	13.0	1.000295
600.00	823.9	16.2	86.8	984.7	665.1	140.3	15.1	1.000292
650.00	809.4	13.0	92.2	971.1	663.8	151.7	14.4	1.000289
700.00	794.9	14.0	93.6	957.4	662.6	161.7	14.0	1.000282
750.00	780.7	13.0	95.0	943.9	661.3	168.6	16.3	1.000276
800.00	766.8	12.0	96.5	930.6	660.0	173.5	16.0	1.000270
850.00	753.0	11.2	95.7	916.8	659.0	178.0	15.0	1.000264
900.00	739.4	10.4	93.5	902.8	658.1	182.0	12.8	1.000257
950.00	726.0	9.7	91.3	889.3	657.1	188.7	11.1	1.000250
1000.00	712.9	9.0	89.4	875.4	656.2	192.7	10.7	1.000244
1050.00	700.0	8.3	87.0	862.0	655.3	197.7	9.4	1.000236
1100.00	687.3	7.6	84.7	847.4	654.6	206.8	7.6	1.000230
1150.00	674.7	7.0	80.4	833.0	654.4	216.6	6.0	1.000223
1200.00	662.3	6.0	75.0	820.9	653.2	228.5	4.8	1.000219
1250.00	650.2	5.7	76.1	808.9	651.9	221.6	5.2	1.000214
1300.00	638.2	4.7	77.1	797.1	650.0	216.4	5.5	1.000210
1350.00	626.5	3.7	77.6	785.3	649.4	213.1	5.7	1.000206
1400.00	614.8	3.0	75.9	772.9	648.5	211.1	5.7	1.000201
1450.00	603.3	2.2	74.0	760.7	647.6	210.4	5.3	1.000196
1500.00	592.1	1.5	72.1	748.6	646.7	211.7	4.7	1.000192
1550.00	581.1	.8	70.3	736.8	645.8	214.7	4.0	1.000187
1600.00	570.2	-.1	61.9	725.6	644.6	240.1	2.5	1.000181
1650.00	559.5	-1.3	40.3	715.7	642.9	233.7	2.7	1.000171
1700.00	548.9	-2.4	46.5	705.0	641.6	233.5	3.0	1.000170
1750.00	538.5	-3.5	54.9	694.1	640.5	248.4	4.6	1.000171
1800.00	528.2	-4.5	48.7	683.3	639.3	3.7	4.3	1.000164
1850.00	518.1	-5.4	51.0	673.0	638.0	7.5	4.4	1.000161
1900.00	508.1	-6.0	54.9	663.1	636.5	7.0	4.6	1.000154
1950.00	498.3	-7.0	57.1	653.2	635.1	8.7	4.0	1.000156
2000.00	488.7	-7.4	47.4	643.2	634.3	9.7	3.4	1.000151
2050.00	479.2	-7.4	50.4	633.3	633.0	14.6	2.7	1.000149
2100.00	469.6	-10.5	50.2	623.6	631.7	20.7	2.6	1.000148
2150.00	460.0	-11.0	77.1	613.7	630.2	24.2	3.3	1.000147
2200.00	451.0	-12.6	81.5	603.7	628.1	23.8	3.8	1.000145
2250.00	442.7	-13.7	95.6	593.5	626.0	21.7	4.3	1.000142
2300.00	433.9	-14.4	83.3	583.3	624.1	150.6	5.1	1.000139

STATION ALTITUDE 29500 FEET MSL  
 14 SEP 53 0700 MDY  
 ASCENSION NO. 430

UPPER AIR DATA  
 2570020436  
 WHITE SANDS  
 TABLE 6 Con't

GEODETIC COORDINATES  
 32.6043 LAT DEG  
 106.17031 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPPOINT DEGREES CENTIGRADE	REL HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
27500.0	435.3	-15.1	-17.7	80.2	573.3	626.2	340.3	5.9	1.000136
28000.0	410.3	-15.9	-19.1	75.7	567.7	625.3	329.8	10.0	1.000133
28500.0	385.5	-17.0	-22.0	64.7	555.0	623.8	323.8	13.1	1.000130
29000.0	360.3	-18.4	-26.3	49.5	546.9	622.1	318.0	15.9	1.000126
29500.0	332.2	-19.7	-39.6	16.0	538.9	620.3	315.5	18.1	1.000121
30000.0	304.2	-20.4	-39.6	16.0	529.5	619.4	312.8	19.8	1.000119
30500.0	276.4	-21.1	-40.2	16.0	520.2	618.5	315.0	20.1	1.000117
31000.0	248.7	-21.7	-41.4	14.7	510.7	617.6	319.8	19.0	1.000115
31500.0	221.2	-22.2	-42.9	13.1	501.3	617.2	324.7	19.6	1.000112
32000.0	193.7	-23.1	-43.7	13.0	492.8	616.1	329.4	19.5	1.000111
32500.0	166.4	-24.1	-44.5	13.0	484.5	614.9	328.4	21.5	1.000109
33000.0	139.3	-25.0	-45.3	13.0	476.3	613.7	327.2	23.6	1.000107
33500.0	112.3	-26.0	-46.1	13.0	468.3	612.5	325.3	25.9	1.000105
34000.0	85.4	-27.0	-46.9	13.0	460.4	611.3	326.6	26.5	1.000103
34500.0	58.9	-28.0	-47.7	13.0	452.7	610.0	327.6	27.0	1.000102
35000.0	31.9	-29.2	-48.6	13.0	445.5	608.5	327.6	26.5	1.000102
35500.0	5.4	-30.5	-49.6	13.0	438.3	606.9	327.9	26.1	1.000098
36000.0	29.9	-31.7	-50.8	13.0	431.2	605.4	326.0	26.0	1.000096
36500.0	4.5	-32.9	-51.8	13.0	424.1	603.8	323.0	26.4	1.000095
37000.0	29.1	-34.2	-52.8	13.0	417.1	602.3	322.3	27.0	1.000093
37500.0	3.6	-35.4	-53.0	13.0	410.2	600.7	321.7	28.0	1.000092
38000.0	27.9	-36.6	-54.8	13.0	403.4	599.2	321.2	29.1	1.000090
38500.0	2.6	-37.6	-55.8	13.0	396.8	597.6	319.0	30.2	1.000089
39000.0	26.0	-38.0	-56.9	13.0	390.2	596.1	317.4	31.0	1.000087
39500.0	25.5	-40.1	-62.4	7.1**	383.5	594.7	316.0	30.8	1.000086
40000.0	250.6	-41.2	-77.0	.9**	376.9	593.3	317.0	30.8	1.000084
40500.0	245.2	-42.0			370.3	591.7	317.4	31.0	1.000082
41000.0	239.7	-43.7			364.7	590.1	317.9	31.5	1.000081
41500.0	234.4	-45.0			357.8	588.5	314.0	31.5	1.000080
42000.0	229.1	-46.2			351.7	586.9	314.4	31.0	1.000078
42500.0	224.0	-47.0			345.5	585.2	314.0	30.6	1.000077
43000.0	218.9	-48.0			339.4	583.6	313.4	30.5	1.000076
43500.0	213.8	-49.5			333.1	582.0	311.5	31.2	1.000074
44000.0	208.9	-50.0			326.9	581.3	309.7	31.6	1.000073
44500.0	204.1	-51.0			320.9	580.0	306.0	31.6	1.000071
45000.0	199.4	-52.0			314.0	578.0	305.2	32.5	1.000070
45500.0	194.8	-53.0			308.8	577.4	303.8	33.7	1.000069
46000.0	190.2	-54.0			302.9	576.2	305.1	34.7	1.000067
46500.0	185.7	-55.3			297.0	575.0	306.7	34.9	1.000066
47000.0	181.4	-56.5			291.3	573.7	308.0	33.7	1.000065

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3925.0 FEET MSL  
 14 SEP. 82  
 ASCENSION NO. 436  
 0700 MDT

UPPER AIR DATA  
 2570020436  
 WHITE SANDS

GEODETIC COORDINATES  
 32.40043 LAT DEG  
 104.37033 LON DEG

TABLE 6 Con't

GLOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
4500.0	177.1	-77.4	26.5	572.5	310.9	32.7	1.000064	
4600.0	174.9	-76.4	26.0	571.2	312.8	31.8	1.000042	
4700.0	168.0	-75.0	274.5	570.1	312.8	31.7	1.000041	
4800.0	164.7	-74.6	268.9	569.0	310.5	31.0	1.000060	
4900.0	160.7	-74.0	263.5	567.9	306.5	29.2	1.000059	
5000.0	156.9	-73.5	258.2	566.8	302.2	27.9	1.000058	
5100.0	153.1	-72.3	252.9	565.7	297.7	26.8	1.000056	
5200.0	149.4	-73.2	247.9	564.5	295.0	26.9	1.000055	
5300.0	145.7	-74.4	243.2	562.9	297.6	27.0	1.000054	
5400.0	142.2	-75.5	238.6	561.4	296.1	26.9	1.000053	
5500.0	138.6	-76.5	233.5	560.3	294.6	27.7	1.000052	
5600.0	135.2	-77.0	228.5	559.3	293.7	29.0	1.000051	
5700.0	131.6	-77.6	223.6	558.3	299.7	29.7	1.000050	
5800.0	128.0	-78.0	218.9	557.3	305.6	30.5	1.000049	
5900.0	125.4	-79.1	214.0	556.5	312.7	30.5	1.000048	
6000.0	122.2	-79.1	208.7	555.5	317.2	29.9	1.000046	
6100.0	119.2	-79.0	203.4	554.6	323.0	28.4	1.000045	
6200.0	116.2	-79.0	198.3	553.6	328.8	24.8	1.000044	
6300.0	113.3	-79.5	193.8	552.9	335.5	20.5	1.000043	
6400.0	110.4	-79.4	189.5	551.9	338.6	16.4	1.000042	
6500.0	107.6	-79.9	185.4	551.0	341.8	12.9	1.000041	
6600.0	104.9	-79.6	181.3	551.1	339.9	12.3	1.000040	
6700.0	102.2	-79.5	177.3	552.1	340.6	11.5	1.000039	
6800.0	99.7	-79.7	173.3	551.4	345.1	10.5	1.000039	
6900.0	97.1	-79.5	168.6	551.8	352.7	9.3	1.000038	
7000.0	94.7	-79.1	164.1	552.3	357.7	8.3	1.000037	
7100.0	92.3	-79.0	159.5	552.8	357.7	7.8	1.000036	
7200.0	89.9	-79.4	155.3	553.3	357.7	7.3	1.000035	
7300.0	87.6	-79.1	151.1	553.8	357.7	7.0	1.000034	
7400.0	85.4	-79.6	147.0	554.4	357.7	6.8	1.000033	
7500.0	83.3	-79.9	142.8	555.3	357.7	6.7	1.000032	
7600.0	81.2	-79.4	138.8	556.3	357.7	6.8	1.000031	
7700.0	79.2	-79.0	134.9	557.3	357.7	7.3	1.000030	
7800.0	77.2	-79.3	131.1	558.2	357.7	9.2	1.000029	
7900.0	75.3	-79.1	127.4	559.2	357.7	9.7	1.000028	
8000.0	73.4	-79.4	123.8	560.1	357.7	11.1	1.000028	
8100.0	71.6	-79.7	120.3	561.1	357.7	10.5	1.000027	
8200.0	69.3	-79.1	116.9	562.0	357.7	7.6	1.000026	
8300.0	68.1	-79.6	113.8	562.6	357.7	5.0	1.000025	
8400.0	66.5	-79.1	110.7	563.5	357.7	3.4	1.000025	

STATION ALTITUDE 29,900 FEET MSL  
 14 SEP. 85  
 ASCENSION NO. 430  
 0700 MDT

UPPER AIR DATA  
 257020436  
 WHITE SANDS

GEODETIC COORDINATES  
 32.40043 LAT DEG  
 106.37033 LON DEG

TABLE 6 Con't

GEOMETRIC ALTITUDE FSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
6500.0	64.9	-62.4		107.2	565.5	33.2	3.1	1.000024
6400.0	62.3	-60.0		103.7	568.0	49.1	3.1	1.000023
6300.0	61.8	-58.7		100.3	570.5	48.7	2.0	1.000022
6200.0	60.3	-56.4		97.7	571.2	38.5	.8	1.000022
6100.0	58.9	-54.3		95.4	571.0	85.5	1.0	1.000021
6000.0	57.5	-52.5		92.2	570.8	107.8	1.6	1.000021
5900.0	56.1	-50.0		91.1	570.7	48.0	2.3	1.000020
5800.0	54.8	-48.7		89.0	570.5	29.6	4.1	1.000020
5700.0	53.5	-46.5		86.9	570.3	39.6	6.4	1.000019
5600.0	52.2	-44.5		84.7	570.7	47.7	8.6	1.000019
5500.0	50.9	-42.5		82.4	571.7	69.1	10.5	1.000018
5400.0	49.7	-40.2		80.2	572.5	82.0	12.8	1.000018
5300.0	48.6	-38.2		78.2	573.2	90.2	13.2	1.000017
5200.0	47.4	-36.2		76.2	573.9	97.7	13.4	1.000017
5100.0	46.3	-34.0		74.2	574.6	105.0	12.9	1.000017
5000.0	45.3	-32.1		72.3	575.2	110.6	12.4	1.000016
4900.0	44.2	-30.0		70.4	575.9	112.6	11.3	1.000016
4800.0	43.2	-28.1		68.6	576.6	112.5	10.4	1.000015
4700.0	42.2	-26.2		66.9	577.3	108.4	9.8	1.000015
4600.0	41.2	-24.3		65.2	577.9	106.0	8.9	1.000015
4500.0	40.2	-22.4		63.5	578.6	106.7	7.7	1.000014
4400.0	39.3	-20.5		62.0	578.9	109.0	6.5	1.000014
4300.0	38.4	-18.6		60.5	579.1	119.1	5.6	1.000013
4200.0	37.5	-16.7		59.1	579.3	129.0	5.0	1.000013
4100.0	36.6	-14.8		57.7	579.4	116.0	5.5	1.000012
4000.0	35.8	-12.9		56.3	579.6	105.7	6.2	1.000013
3900.0	35.0	-11.0		55.0	579.7	98.2	10.0	1.000012
3800.0	34.1	-9.1		53.7	579.9	94.8	13.9	1.000012
3700.0	33.4	-7.2		52.4	580.1	91.2	15.3	1.000012
3600.0	32.6	-5.3		51.2	580.2	67.5	16.0	1.000011
3500.0	31.9	-3.4		50.0	580.4	82.9	14.8	1.000011
3400.0	31.1	-1.5		48.8	580.5	75.7	12.7	1.000011
3300.0	30.4	0.4		47.7	580.7	68.5	10.2	1.000011
3200.0	29.7	2.3		46.5	581.0	63.2	8.7	1.000010
3100.0	29.0	4.2		45.4	581.4	57.1	7.6	1.000010
3000.0	28.4	6.1		44.3	581.8	53.6	7.2	1.000010
2900.0	27.7	8.0		43.2	582.2	49.7	6.9	1.000010
2800.0	27.1	9.9		42.2	582.6	46.4	9.0	1.000009
2700.0	26.5	11.8		41.1	583.0	45.4	11.3	1.000009
2600.0	25.9	13.7		40.1	583.7	40.4	13.6	1.000009

UPPER AIR DATA  
2570020436  
WHITE SANDS

STATION ALTITUDE 3929.0 FEET MSL  
14 SEP. 83  
ASCENSION NO. 436

GEODETIC COORDINATES  
32.60743 LAT DEG  
106.37033 LON DEG

TABLE 6 Con't

ALTIMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
81500.0	25.3	-43.1		39.1	584.4	49.7	15.8	1.000009
84000.0	24.7	-47.6		38.2	585.1	49.9	18.0	1.000006
84500.0	24.2	-47.1		37.2	585.7	51.2	19.2	1.000006
85000.0	23.8	-46.6		36.3	586.4	52.4	20.3	1.000008
85500.0	23.1	-46.1		35.4	587.1	53.8	21.1	1.000006
86000.0	22.6	-45.5		34.5	587.7	55.3	21.6	1.000008
86500.0	22.1	-45.0		33.7	588.4	57.5	22.1	1.000007
87000.0	21.6	-44.5		32.9	589.1	68.5	22.3	1.000007
87500.0	21.1	-44.0		32.0	589.7	78.9	23.3	1.000007
88000.0	20.6	-43.5		31.3	590.4	86.6	23.7	1.000007
88500.0	20.1	-43.0		30.5	591.1	93.2	23.5	1.000007
89000.0	19.7	-42.6		29.8	591.6	99.2	23.3	1.000007
89500.0	19.3	-42.2		29.1	592.1	100.4	21.3	1.000006
90000.0	18.8	-41.6		28.4	592.5	101.9	19.3	1.000006
90500.0	18.4	-41.5		27.7	593.0	101.3	18.1	1.000006
91000.0	18.0	-41.1		27.1	593.4	99.1	17.4	1.000006
91500.0	17.6	-40.8		26.4	593.9	96.4	16.7	1.000006
92000.0	17.2	-40.4		25.8	594.3	87.8	17.0	1.000006
92500.0	16.9	-40.0		25.2	594.8	79.7	17.6	1.000006
93000.0	16.5	-39.7		24.6	595.3	75.3	17.9	1.000005
93500.0	16.1	-39.0		24.1	594.9	73.7	17.8	1.000005
94000.0	15.6	-40.4		23.6	594.3	72.2	17.6	1.000005
94500.0	15.4	-40.9		23.1	593.7	76.4	16.6	1.000005
95000.0	15.1	-41.4		22.7	593.1	81.2	15.7	1.000005
95500.0	14.7	-41.9		22.2	592.5			1.000005
96000.0	14.4	-42.4		21.8	591.8			1.000005
96500.0	14.1	-42.8		21.3	591.2			1.000005
97000.0	13.8	-43.3		20.9	590.6			1.000005
97500.0	13.5	-43.8		20.5	590.0			1.000005

UPPER AIR DATA  
2570020436  
WHITE SANDS

STATION ALTITUDE 3929.0 FEET MSL  
14 SEP. 83  
ASCENSION NO. 436

GEODETIC COORDINATES  
32.40943 LAT DEG  
106.37933 LONG DEG

TABLE 6 Con't

GLOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
84500.0	25.3	-43.1		39.1	584.4	49.7	15.8	1.000009
84000.0	24.7	-47.6		38.2	585.1	49.9	18.0	1.000006
83500.0	24.2	-47.1		37.7	585.7	51.2	19.2	1.000008
83000.0	23.6	-46.6		36.3	586.4	52.4	20.3	1.000008
82500.0	23.1	-46.1		35.4	587.1	53.8	21.1	1.000006
82000.0	22.6	-45.5		34.5	587.7	55.3	21.6	1.000008
81500.0	22.1	-45.0		33.7	588.4	57.5	22.1	1.000007
81000.0	21.6	-44.5		32.9	589.1	68.5	22.3	1.000007
80500.0	21.1	-44.0		32.0	589.7	78.9	23.3	1.000007
80000.0	20.6	-43.5		31.3	590.4	86.6	23.7	1.000007
79500.0	20.1	-43.0		30.5	591.1	93.2	23.5	1.000007
79000.0	19.7	-42.6		29.8	591.6	99.2	23.3	1.000007
78500.0	19.3	-42.2		29.1	592.1	100.4	21.3	1.000006
78000.0	18.8	-41.6		28.4	592.5	101.9	19.3	1.000006
77500.0	18.4	-41.5		27.7	593.0	101.7	18.1	1.000006
77000.0	18.0	-41.1		27.1	593.4	99.1	17.4	1.000006
76500.0	17.6	-40.6		26.4	593.9	96.4	16.7	1.000006
76000.0	17.2	-40.4		25.8	594.3	87.8	17.0	1.000006
75500.0	16.9	-40.0		25.2	594.8	79.7	17.6	1.000006
75000.0	16.5	-39.7		24.6	595.3	75.3	17.9	1.000005
74500.0	16.1	-40.0		24.1	594.9	73.7	17.8	1.000005
74000.0	15.8	-40.4		23.6	594.3	72.2	17.6	1.000005
73500.0	15.4	-40.9		23.1	593.7	76.4	16.6	1.000005
73000.0	15.1	-41.4		22.7	593.1	61.2	15.7	1.000005
72500.0	14.7	-41.9		22.2	592.5			1.000005
72000.0	14.4	-42.4		21.8	591.8			1.000005
71500.0	14.1	-42.8		21.3	591.2			1.000005
71000.0	13.8	-42.3		20.9	590.6			1.000005
70500.0	13.5	-43.8		20.5	590.0			1.000005

STATION ALTITUDE 3256.00 FEET MSL  
14 SEP. 53  
ASCENSION NO. 436

MANDATORY LEVELS  
2570020436  
WHITE SANDS

GEODETIC COORDINATES  
32.40043 LAT DEG  
106.37033 LON DEG

TABLE 7

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5121.	18.3	14.0	76.	137.2	10.0
800.0	6820.	14.4	13.3	93.	158.4	14.4
750.0	8604.	11.0	10.3	95.	179.0	14.6
700.0	10490.	8.3	6.3	87.	197.6	9.4
650.0	12497.	5.7	1.8	76.	221.5	5.2
600.0	14634.	2.0	-2.2	73.	210.1	5.2
550.0	16925.	-2.3	-12.2	46.	330.9	3.7
500.0	19387.	-7.7	-14.3	59.	8.2	4.1
450.0	22054.	-12.9	-15.3	82.	23.5	3.9
400.0	24975.	-18.4	-26.4	49.	318.8	15.9
350.0	28209.	-23.6	-44.1	13.	328.9	20.5
300.0	31851.	-31.5	-50.6		325.5	26.0
250.0	35996.	-41.4			317.1	10.8
200.0	40840.	-52.4			305.4	32.3
175.0	43639.	-57.7			311.8	32.3
150.0	46791.	-63.0			297.9	26.9
125.0	50412.	-69.1			312.6	10.5
100.0	54762.	-72.9			344.2	10.6
50.0	59063.	-68.8			55.6	7.0
70.0	61739.	-65.1			86.9	8.1
60.0	64869.	-58.2			41.6	8
50.0	68430.	-57.3			79.4	12.6
40.0	73311.	-52.5			106.4	7.5
30.0	79434.	-50.9			6.2	9.5
25.0	83351.	-47.9			44.8	16.6
20.0	88236.	-42.8			94.7	23.5
15.0	94654.	-41.5			87.1	15.6

.. AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4511.7 FEET MSL  
14 SEP. 60  
ASCENSION NO. 115 0900 MDT

SIGNIFICANT LEVEL DATA  
270190115  
LC-37

GEODETIC COORDINATES  
32.40175 LAT DEG  
106.31232 LON DEG

TABLE 8

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	
307.9	21.2	14.0	66.0
877.1	20.1	13.6	66.0
866.9	20.2	14.3	69.0
250.0	18.3	13.8	75.0
348.3	16.6	13.5	82.0
013.9	16.2	14.0	87.0
772.5	14.5	13.4	93.0
737.7	11.9	11.0	94.0
722.5	12.6	10.3	86.0
700.0	8.2	7.5	97.0
671.0	6.6	0.2	97.0
553.6	4.5	4.1	97.0
645.0	3.8	.8	81.0
571.8	.5	-3.7	72.0

STATION ALTITUDE 4051.77 FEET MSL  
14 SEP 65 0900 MDT  
ASCENSION NO. 11

UPPER AIR DATA  
45701RU115  
LL-37

GEODETIC COORDINATES  
32.40175 LAT DEG  
106.31232 LON DEG

TABLE 9

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
451.4	882.9	11.4	66.0	1037.5	670.6	135.0	4.1	1.000304
4100.0	881.4	10.7	66.0	1032.8	670.4	135.3	4.2	1.000303
4200.0	878.3	10.5	66.0	1035.5	669.7	136.0	4.4	1.000300
4300.0	875.2	10.1	66.6	1032.6	669.4	136.5	4.6	1.000299
4400.0	872.1	10.1	67.5	1028.7	669.5	137.1	4.8	1.000300
4500.0	869.1	10.2	68.4	1024.9	669.0	137.6	5.0	1.000300
4600.0	866.0	10.1	69.3	1021.4	669.5	138.0	5.2	1.000300
4700.0	863.0	10.3	70.4	1019.0	669.1	138.4	5.4	1.000299
4800.0	859.9	10.4	71.5	1016.7	668.7	138.8	5.6	1.000298
4900.0	856.9	10.1	72.5	1014.3	668.3	139.2	5.8	1.000297
5000.0	853.9	10.7	73.6	1011.9	667.9	139.5	6.0	1.000296
5100.0	850.9	10.4	74.7	1009.5	667.5	139.8	6.2	1.000296
5200.0	847.9	10.1	75.7	1006.9	667.2	140.1	6.4	1.000295
5300.0	844.8	10.7	76.6	1004.1	667.0	140.4	6.6	1.000294
5400.0	841.9	10.7	77.6	1001.3	666.7	140.7	6.8	1.000294
5500.0	838.9	10.4	78.6	998.6	666.5	140.9	7.0	1.000293
5600.0	835.9	10.2	79.5	995.8	666.2	141.1	7.2	1.000292
5700.0	832.9	10.0	80.5	993.1	665.9	141.3	7.4	1.000292
5800.0	829.9	10.7	81.5	990.4	665.7	141.6	7.6	1.000291
5900.0	827.0	10.6	82.4	987.6	665.5	142.1	7.8	1.000290
6000.0	824.1	10.5	83.5	984.1	665.4	142.4	7.7	1.000290
6100.0	821.2	10.4	84.5	980.8	665.3	142.7	7.7	1.000290
6200.0	818.2	10.5	85.5	977.5	665.3	142.9	7.6	1.000289
6300.0	815.3	10.4	86.5	974.2	665.2	143.3	7.6	1.000289
6400.0	812.4	10.0	87.6	971.4	665.0	143.9	7.6	1.000289
6500.0	809.5	10.7	88.8	969.1	664.6	144.4	7.6	1.000288
6600.0	806.6	10.2	90.0	966.3	664.2	144.7	7.6	1.000287
6700.0	803.7	10.0	91.2	964.6	663.9	145.2	7.7	1.000286
6800.0	800.7	10.7	92.4	962.3	663.3	145.7	7.7	1.000285
6900.0	797.8	10.4	93.0	959.7	663.0	146.4	8.0	1.000284
7000.0	795.1	10.2	93.1	956.9	662.8	147.4	8.3	1.000283
7100.0	792.3	10.1	93.2	954.1	662.6	147.5	8.6	1.000281
7200.0	789.4	10.7	93.2	951.3	662.4	147.7	8.8	1.000280
7300.0	786.6	10.7	93.3	948.5	662.2	147.7	9.2	1.000279
7400.0	783.7	10.6	93.4	945.7	662.0	147.7	9.5	1.000278
7500.0	780.9	10.4	93.4	942.9	661.8	147.7	9.9	1.000276
7600.0	778.1	10.2	93.5	940.1	661.5	149.1	10.1	1.000275
7700.0	775.3	10.0	93.6	937.3	661.3	149.3	10.4	1.000274
7800.0	772.5	10.7	93.6	934.5	661.1	149.3	10.5	1.000273
7900.0	769.6	10.7	93.7	931.7	660.9	149.4	10.5	1.000272

STATION ALTITUDE 4051.7 FEET MSL  
 14 SEP 50  
 ASCENSION NO. 115 0900 MDT

UPPER AIR DATA  
 25018J115  
 LC-37

GEODETIC COORDINATES  
 32.40175 LAT DEG  
 106.11232 LON DEG

TABLE 9 Con't

BAROMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	TEMPERATURE DEWPOINT CELSIUS	RELATIVITY PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TV)	SPEED KNOTS	INDEX OF REFRACTION
5000.0	767.0	12.5	11.5	93.0	929.0	660.7	165.5	17.5	1.000270
4900.0	764.2	12.5	11.4	93.8	924.3	660.5	167.7	10.5	1.000269
4800.0	761.5	12.2	11.2	93.9	923.6	660.2	169.1	10.6	1.000268
4700.0	758.7	12.0	11.1	94.0	920.3	660.0	170.0	10.6	1.000267
4600.0	756.0	12.1	10.5	92.1	917.4	660.1	192.6	10.7	1.000265
4500.0	753.3	12.5	10.4	87.4	912.9	660.5	194.3	10.7	1.000262
4400.0	750.5	12.4	10.2	76.4	909.7	660.4	196.0	10.8	1.000261
4300.0	747.0	12.2	10.1	87.0	907.2	660.2	197.8	10.5	1.000260
4200.0	745.1	12.0	10.0	87.5	904.6	659.9	199.6	10.3	1.000259
4100.0	742.4	11.5	9.9	88.1	903.0	659.6	201.5	10.1	1.000258
4000.0	739.7	11.0	9.7	82.6	899.5	659.4	203.5	9.9	1.000257
3900.0	737.0	11.5	9.0	85.2	896.9	659.1	205.4	9.7	1.000256
3800.0	734.3	11.1	9.5	89.7	894.4	658.9	207.7	9.5	1.000255
3700.0	731.0	10.9	9.4	90.3	891.0	658.6	210.0	9.3	1.000254
3600.0	729.0	10.7	9.2	90.8	889.4	658.3	212.3	9.2	1.000253
3500.0	726.3	10.4	9.1	91.4	886.8	658.0	213.5	9.0	1.000252
3400.0	723.7	10.2	9.0	91.9	884.3	657.8	214.0	8.8	1.000251
3300.0	721.1	10.0	8.0	92.5	881.8	657.5	214.5	8.5	1.000250
3200.0	718.4	9.8	8.7	93.0	879.3	657.2	215.1	8.3	1.000249
3100.0	715.8	9.0	8.6	93.6	876.9	657.0	215.6	8.1	1.000248
3000.0	713.2	9.3	8.4	94.2	874.4	656.7	216.2	7.9	1.000247
2900.0	710.6	9.1	8.3	94.7	871.9	656.4	216.8	7.6	1.000246
2800.0	708.0	8.9	8.2	95.3	869.5	656.2	217.5	7.4	1.000245
2700.0	705.5	8.7	8.0	95.8	867.0	655.9	218.2	7.2	1.000245
2600.0	702.9	8.5	7.9	96.4	864.6	655.6	217.4	7.1	1.000244
2500.0	700.4	8.4	7.6	96.9	862.1	655.4	216.3	7.1	1.000243
2400.0	697.8	8.1	7.6	97.0	859.4	655.2	215.2	7.0	1.000242
2300.0	695.2	7.9	7.5	97.0	856.7	655.0	214.0	7.0	1.000241
2200.0	692.7	7.9	7.4	97.0	854.0	654.8	212.8	6.9	1.000240
2100.0	690.1	7.7	7.2	97.0	851.4	654.7	211.6	6.9	1.000239
2000.0	687.6	7.5	7.1	97.0	848.7	654.5	210.4	6.9	1.000238
1900.0	685.0	7.4	6.9	97.0	846.0	654.3	209.2	6.8	1.000237
1800.0	682.5	7.2	6.9	97.0	843.3	654.1	208.2	6.8	1.000236
1700.0	680.0	7.1	6.7	97.0	840.7	654.0	208.5	6.8	1.000235
1600.0	677.5	7.0	6.5	97.0	838.0	653.8	206.8	6.8	1.000234
1500.0	675.0	6.9	6.4	97.0	835.4	653.6	209.2	6.8	1.000233
1400.0	672.5	6.7	6.4	97.0	832.8	653.5	209.5	6.8	1.000232
1300.0	670.0	6.5	6.0	97.0	830.3	653.2	209.0	6.8	1.000231
1200.0	667.5	6.3	5.9	97.0	827.7	652.8	210.2	6.8	1.000229
1100.0	665.0	6.1	5.5	97.0	825.1	652.5	210.5	6.9	1.000228

UPPER AIR DATA  
 25701PG115  
 LC-37

STATION ALTITUDE 4031.77 FEET MSL  
 16 JEP. PJ  
 ASCENSION NO. 115 0900 MDT

GEODETIC COORDINATES  
 32.40175 LAT DEG  
 106.31252 LON DEG

TABLE 9 Con't

GEOMETRIC ALTITUDE PSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL-HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	INDEX OF REFRACTION
14000.0	666.7	5.0	97.0	824.0	652.1	210.0	1.000227
14100.0	660.2	5.0	97.0	821.9	651.7	211.2	1.000225
14200.0	657.8	5.0	97.0	819.8	651.3	211.2	1.000224
14300.0	655.3	4.7	97.0	817.7	651.0	211.5	1.000223
14400.0	652.9	4.4	95.7	815.5	650.6	211.5	1.000221
14500.0	650.5	4.2	91.2	813.3	650.3	211.5	1.000218
14600.0	648.0	4.0	86.7	811.1	650.0	211.5	1.000216
14700.0	645.6	3.9	92.2	808.8	649.6	211.6	1.000213
14800.0	643.2	3.7	80.7	806.3	649.4	211.6	1.000211
14900.0	640.8	3.5	80.3	803.8	649.2	211.6	1.000210
15000.0	638.4	3.4	79.9	801.2	649.0	211.6	1.000209
15100.0	636.0	3.2	79.5	798.7	648.9	211.6	1.000208
15200.0	633.6	3.1	79.1	796.2	648.7	211.4	1.000207
15300.0	631.2	2.9	78.7	793.6	648.5	210.8	1.000206
15400.0	628.9	2.8	78.2	791.1	648.3	209.6	1.000205
15500.0	626.5	2.6	77.8	788.6	648.1	208.7	1.000204
15600.0	624.1	2.5	77.4	786.1	647.9	207.9	1.000203
15700.0	621.8	2.3	77.0	783.6	647.7	207.0	1.000202
15800.0	619.5	2.2	76.6	781.1	647.5	206.2	1.000201
15900.0	617.1	2.0	76.2	778.7	647.3	205.4	1.000200
16000.0	614.8	1.9	75.8	776.2	647.1	204.6	1.000200
16100.0	612.5	1.7	75.4	773.7	647.0		1.000199
16200.0	610.2	1.6	75.0	771.3	646.8		1.000198
16300.0	607.9	1.4	74.6	768.8	646.6		1.000197
16400.0	605.7	1.3	74.2	766.4	646.4		1.000196
16500.0	603.4	1.1	73.7	764.0	646.2		1.000195
16600.0	601.1	1.0	73.3	761.6	646.0		1.000194
16700.0	598.9	.8	72.9	759.1	645.8		1.000193
16800.0	596.6	.7	72.5	756.7	645.6		1.000192
16900.0	594.4	.5	72.1	754.3	645.4		1.000191

STATION ALTITUDE 4051.77 FEET MSL  
 14 SEP 85  
 ASCENSION NO. 115 0900 MDT

MANDATORY LEVELS  
 2570180115  
 LC-37

GEODETIC COORDINATES  
 32.60175 LAT DEG  
 106.31232 LON DEG

TABLE 10

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT		DIRECTION DEGREES(TW)	SPEED KNOTS
500.0	5125.	18.3	13.8	75.		139.9	6.2
600.0	6225.	14.6	13.4	93.		165.8	7.8
750.0	8613.	12.4	10.2	87.		196.7	10.7
1000.0	10507.	8.2	7.8	97.		216.2	7.1
1500.0	12506.	4.2	2.9	90.		211.7	6.5
2000.0	14637.	.9	-3.3	73.			

STATION ALTITUDE 3949.70 FEET MSL  
 14 SEP 63  
 ASCENSION 400 437

SIGNIFICANT LEVEL DATA  
 257070437  
 WHITE SANDS

TABLE II

PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE AIR	DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
755.3	2984.0	25.0	14.5	52.0
508.9	4522.2	20.8	14.0	65.0
210.0	5149.2	18.7	13.8	73.0
729.1	6880.6	13.9	12.3	90.0
727.9	9460.5	10.7	9.5	92.0
700.0	10329.9	8.4	6.4	87.0
644.0	12779.9	3.3	2.7	96.0
639.5	12967.0	2.9	-1.0	76.0
630.5	13344.6	2.6	-1.7	73.0
625.9	13534.9	3.3	-1.1	73.0
621.4	17732.7	3.5	-0.8	73.0
600.4	14647.8	1.2	-2.5	76.0
506.6	15262.4	-0.2	-4.6	72.0

UPPER AIR DATA  
 470000437  
 WHITE SANDS  
 TABLE 12

STATION ALTITUDE 20.9. 6 FEET MSL  
 14 SEP. 81  
 1000 MDT  
 ACCESSION NO. 437

GEODETIC COORDINATES  
 31.40043 LAT DEG  
 106.77052 LONG DEG

TABLE 12

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL-HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
1530.0	663.7	14.5	52.0	1027.1	675.1	150.7	4.1	1.000294
1500.0	671.0	14.5	52.3	1027.0	675.0	150.0	4.1	1.000294
1480.0	676.5	14.4	57.1	1025.3	673.2	149.3	4.3	1.000294
1460.0	672.7	14.2	62.0	1023.6	671.4	148.7	4.4	1.000299
1440.0	666.6	14.0	66.0	1020.8	670.0	148.2	4.6	1.000298
1400.0	640.0	13.5	65.5	1015.9	669.2	147.7	4.8	1.000297
1380.0	654.5	13.3	71.1	1011.1	668.5	147.2	4.9	1.000296
1360.0	646.5	13.7	72.5	1006.1	667.7	146.8	5.1	1.000294
1340.0	642.4	13.6	75.5	1000.2	667.1	146.7	5.1	1.000293
1300.0	630.4	13.2	77.4	995.7	666.4	146.0	5.4	1.000291
1280.0	620.5	13.3	79.4	990.5	665.0	145.4	5.6	1.000290
1260.0	614.6	13.1	81.4	985.4	663.5	145.3	5.8	1.000288
1240.0	618.7	13.0	83.3	980.3	664.5	144.9	5.9	1.000286
1220.0	612.9	12.8	85.3	975.2	663.9	145.9	6.2	1.000285
1200.0	607.1	12.6	87.2	970.2	663.2	151.2	6.8	1.000283
1180.0	601.4	12.4	89.2	965.2	662.6	155.6	7.5	1.000281
1160.0	795.7	12.2	90.1	959.6	662.1	159.2	8.2	1.000279
1140.0	789.9	11.9	90.2	953.5	661.8	162.3	9.0	1.000277
1120.0	784.2	11.7	90.4	947.5	661.5	164.9	9.8	1.000275
1100.0	778.6	11.5	90.6	941.6	661.2	167.5	10.0	1.000273
1080.0	773.0	11.3	90.7	935.6	660.9	170.8	9.6	1.000271
1060.0	767.4	11.1	90.9	929.7	660.6	174.3	9.3	1.000268
1040.0	761.9	10.8	91.0	923.9	660.3	178.1	9.0	1.000266
1020.0	756.4	10.6	91.2	918.1	660.0	182.1	8.8	1.000264
1000.0	750.9	10.4	91.3	912.3	659.7	185.3	8.3	1.000262
980.0	745.5	10.2	91.5	906.5	659.4	188.2	7.8	1.000260
960.0	740.1	10.0	91.6	900.8	659.1	191.5	7.3	1.000258
940.0	734.6	9.7	91.6	895.2	658.8	195.4	6.9	1.000255
920.0	729.5	9.5	92.0	889.5	658.5	198.6	6.6	1.000254
900.0	724.2	9.1	91.3	884.4	658.0	199.4	6.8	1.000251
880.0	718.9	8.5	90.4	879.4	657.4	200.2	6.9	1.000248
860.0	713.7	7.9	89.5	874.5	656.9	201.0	7.1	1.000245
840.0	708.5	7.3	88.5	869.6	656.3	201.7	7.3	1.000243
820.0	703.3	6.7	87.6	864.8	655.8	202.4	7.4	1.000240
800.0	698.2	6.3	87.3	859.9	655.2	203.1	7.3	1.000237
780.0	693.0	5.9	86.1	855.0	654.6	203.7	7.3	1.000235
760.0	687.9	5.6	86.4	850.1	654.1	204.4	7.3	1.000233
740.0	682.8	5.3	86.7	845.3	653.5	205.1	7.3	1.000231
720.0	677.6	5.0	90.5	840.4	653.0	206.4	7.1	1.000230
700.0	672.8	4.7	91.3	835.7	652.4	208.2	6.9	1.000228

UPPER AIR DATA  
 2570020437  
 WHITE SANDS  
 GEODETIC COORDINATES  
 32.40047 LAT DEG  
 106.17033 LON DEG

STATION ALTITUDE 505.0 FEET MSL  
 14 SEP. 63  
 ASCENSION NO. 427

TABLE 12 Con't

GEOMETRIC ALTITUDE FSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup>	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
1100.0	607.3	5.5	92.1	830.9	651.9	206.9	6.6	1.000226
1200.0	604.9	5.1	92.9	826.2	651.5	211.9	6.7	1.000224
1300.0	602.0	4.6	93.7	821.5	650.8	213.0	6.1	1.000222
1400.0	603.1	4.2	94.5	816.8	650.2	217.1	6.0	1.000220
1500.0	602.3	3.7	95.3	812.1	649.7	220.7	6.0	1.000219
1600.0	603.5	3.2	93.8	807.6	649.1	224.3	6.0	1.000216
1700.0	603.7	2.8	75.7	801.7	648.2	227.8	6.0	1.000207
1800.0	603.9	2.7	74.1	798.0	648.1	231.7	6.1	1.000205
1900.0	604.2	2.8	73.0	791.7	648.2	234.2	6.4	1.000204
2000.0	604.5	3.4	73.0	784.0	649.0	236.5	6.9	1.000203
2100.0	619.6	3.4	73.2	778.0	649.0	238.5	7.3	1.000202
2200.0	615.2	2.7	73.9	773.7	648.4	240.3	7.8	1.000200
2300.0	610.0	2.4	74.5	769.6	647.7			1.000198
2400.0	606.0	1.7	75.2	765.2	647.1			1.000197
2500.0	601.5	1.3	75.2	761.0	646.5			1.000195
2600.0	597.0	.9	75.0	756.6	645.9			1.000193
2700.0	592.5	.4	73.7	752.3	645.3			1.000191
2800.0	588.0	-.1	72.4	747.9	644.7			1.000189

STATION ALTITUDE 2009.70 FEET MSL  
 14 SEP 31  
 ASCENSION NO. 437 1000 MDT

MANDATORY LEVELS  
 2570020437  
 WHITE SANDS

GEODETIC COORDINATES  
 32.5014° LAT N  
 106.1703° LONG W

TABLE 13

PRESSURE GEOPOTENTIAL MILLIBARS	FEET	TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
		AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
30.0	5145.	18.7	13.8	73.	146.9	5.0
40.0	6844.	14.0	12.7	93.	156.5	7.7
50.0	8629.	11.7	10.4	91.	185.7	8.2
700.0	10519.	8.4	6.4	87.	202.8	7.5
1000.0	12518.	3.9	3.1	95.	219.4	6.0
1000.0	14648.	1.2	-2.6	76.		

STATION ALTITUDE 4051.7 FEET MSL  
 14 SEP. 50  
 ASCENSION NO. 115

1119 MDT

SIGNIFICANT LEVEL DATA  
 570130116  
 LC-37

GEODETIC COORDINATES  
 32.40175 LAT DEG  
 106.51232 LON DEG

TABLE 14

PRESSURE GEOMETRIC ALTITUDE "ILLIANS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	
833.0	26.2	15.6	52.0
927.0	22.5	12.7	54.0
1000.0	20.3	13.3	65.0
1090.8	16.3	13.3	81.0
1168.0	12.8	12.0	95.0
1240.7	11.2	10.0	96.0
1300.0	8.3	7.9	94.0
1372.6	6.5	5.5	93.0
1441.8	3.9	2.9	94.0
1506.5	4.4	-0.0	73.0
1573.4	-0.7	-4.2	77.0

STATION ALTITUDE 4051.77 FEET MSL  
 14 SEP 62  
 ACCESSION NO. 112

UPPER AIR DATA  
 4570120116  
 LC-57

GEODETIC COORDINATES  
 32.40175 LAT DEG  
 106.31232 LON DEG

TABLE 15 Con't

GEOMETRIC ALTITUDE FSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GRAMS PER CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
4051.4	612.0	16.2	52.0	1019.8	676.6	147.8	6.0	1.000302
4100.0	661.5	15.3	52.5	1021.5	675.5	147.8	6.2	1.000300
4150.0	676.5	15.4	53.5	1025.1	673.1	147.8	6.5	1.000295
4200.0	675.4	12.4	54.0	1025.3	671.9	147.8	6.9	1.000293
4300.0	672.3	12.9	55.9	1022.5	671.6	147.8	1.3	1.000203
4500.0	669.2	11.7	57.1	1019.7	671.3	147.8	1.6	1.000293
4600.0	666.2	11.0	56.3	1017.0	671.3	147.8	2.0	1.000293
4700.0	663.4	11.4	59.0	1014.2	670.8	147.8	2.4	1.000292
4800.0	660.2	11.1	60.8	1011.4	670.6	147.8	2.7	1.000292
4900.0	657.2	10.7	62.0	1008.7	670.3	147.8	3.1	1.000292
5000.0	654.6	10.0	63.3	1005.9	670.0	147.8	3.5	1.000292
5100.0	651.2	10.4	64.5	1003.2	669.8	147.8	3.8	1.000292
5200.0	648.2	10.1	65.7	1000.5	669.5	147.8	4.2	1.000291
5300.0	645.2	19.0	66.8	998.0	669.2	147.8	4.5	1.000291
5400.0	642.2	19.6	68.0	995.4	668.8	147.8	4.9	1.000290
5500.0	639.2	19.3	69.1	992.8	668.5	147.8	5.3	1.000290
5600.0	636.0	19.0	70.4	990.2	668.2	147.8	5.6	1.000289
5700.0	633.3	18.7	71.4	987.7	667.9	147.7	5.9	1.000289
5800.0	630.4	18.4	72.5	985.2	667.6	147.4	5.9	1.000288
5900.0	627.4	18.1	73.7	982.6	667.2	147.1	5.9	1.000288
6000.0	624.0	17.8	74.6	980.1	666.9	146.8	6.0	1.000287
6100.0	621.6	17.6	76.0	977.6	666.6	146.4	6.0	1.000286
6200.0	618.7	17.3	77.1	975.1	666.3	146.3	6.0	1.000286
6300.0	615.6	17.0	78.2	972.6	665.9	146.0	6.0	1.000285
6400.0	612.9	16.7	79.4	970.1	665.6	145.8	6.0	1.000284
6500.0	610.0	16.4	80.5	967.5	665.3	145.5	6.1	1.000284
6600.0	607.1	16.2	81.0	965.1	665.0	145.0	6.1	1.000283
6700.0	604.2	15.9	82.5	962.4	664.7	144.6	6.1	1.000282
6800.0	601.4	15.7	83.5	959.8	664.4	147.4	6.1	1.000282
6900.0	796.5	15.4	84.5	957.1	664.1	148.1	6.1	1.000281
7000.0	793.6	15.2	85.4	954.5	663.9	148.3	6.1	1.000280
7100.0	790.6	14.9	86.4	951.9	663.6	148.5	6.1	1.000279
7200.0	787.9	14.7	87.4	949.3	663.3	150.2	6.1	1.000279
7300.0	785.1	14.5	88.3	946.7	663.0	150.0	6.1	1.000278
7400.0	784.3	14.2	89.3	944.1	662.7	152.3	6.1	1.000277
7500.0	781.5	14.0	90.3	941.5	662.5	156.6	6.0	1.000276
7600.0	778.7	13.7	91.3	939.0	662.2	161.1	5.9	1.000275
7700.0	775.9	13.5	92.4	936.4	661.9	165.7	5.8	1.000275
7800.0	773.1	13.2	93.2	933.9	661.6	170.3	5.8	1.000274
7900.0	770.4	13.0	94.2	931.3	661.3	175.0	5.8	1.000273

GEOMETRIC COORDINATES  
32.40175 LAT DEG  
106.31232 LONG DEG

UPPER AIR DATA  
270180116  
LC-37

STATION ALTITUDE 4021.77 FEET MSL  
14 SEP. 82  
ASCENSION NO. 116

TABLE 15 Con't

GEOMETRIC ALTITUDE HSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
1000.0	757.0	12.0	95.0	928.8	661.0	179.6	5.0	1.000272
1100.0	744.6	11.3	95.1	924.1	660.8	164.1	6.0	1.000271
1200.0	732.1	10.4	95.3	927.4	660.6	169.4	6.1	1.000270
1300.0	719.6	9.5	95.4	920.7	660.3	171.1	6.3	1.000269
1400.0	707.0	8.6	95.5	918.0	660.1	173.1	6.5	1.000267
1500.0	694.5	7.7	95.6	915.3	659.9	175.0	6.7	1.000266
1600.0	682.0	6.8	95.7	912.7	659.6	176.0	6.9	1.000265
1700.0	669.5	5.9	95.8	910.0	659.4	178.5	7.1	1.000264
1800.0	657.0	5.0	96.0	907.4	659.2	200.1	7.3	1.000262
1900.0	644.5	4.1	95.9	904.6	659.0	201.6	7.5	1.000261
2000.0	632.0	3.2	95.8	901.8	658.8	203.1	7.7	1.000260
2100.0	619.5	2.3	95.7	899.0	658.6	204.4	8.0	1.000259
2200.0	607.0	1.4	95.6	896.3	658.4	205.6	8.1	1.000258
2300.0	594.5	0.5	95.5	893.5	658.2	206.7	8.1	1.000256
2400.0	582.0	-0.4	95.3	890.7	658.1	207.8	8.1	1.000255
2500.0	569.5	-1.3	95.2	887.9	657.9	209.0	8.1	1.000254
2600.0	557.0	-2.2	95.1	885.2	657.7	210.1	8.2	1.000253
2700.0	544.5	-3.1	95.0	882.5	657.5	211.2	8.2	1.000252
2800.0	532.0	-4.0	94.9	879.7	657.4	212.3	8.3	1.000251
2900.0	519.5	-4.9	94.7	877.0	657.2	213.4	8.3	1.000250
3000.0	507.0	-5.8	94.6	874.3	657.0	214.5	8.3	1.000248
3100.0	494.5	-6.7	94.5	871.6	656.8	214.5	8.4	1.000247
3200.0	482.0	-7.6	94.4	868.9	656.6	214.3	8.5	1.000246
3300.0	469.5	-8.5	94.3	866.2	656.5	214.0	8.5	1.000245
3400.0	457.0	-9.4	94.2	863.5	656.3	213.8	8.6	1.000244
3500.0	444.5	-10.3	94.0	860.8	656.1	213.6	8.6	1.000243
3600.0	432.0	-11.2	93.9	858.1	655.9	213.4	8.7	1.000242
3700.0	419.5	-12.1	93.8	855.4	655.6	213.2	8.8	1.000240
3800.0	407.0	-13.0	93.7	852.7	655.3	213.0	8.8	1.000239
3900.0	394.5	-13.9	93.6	850.0	655.1	212.7	8.9	1.000238
4000.0	382.0	-14.8	93.5	847.3	654.8	212.6	9.0	1.000237
4100.0	369.5	-15.7	93.4	844.6	654.5	212.4	9.1	1.000235
4200.0	357.0	-16.6	93.4	841.9	654.3	212.3	9.2	1.000234
4300.0	344.5	-17.5	93.3	839.2	654.0	212.0	9.4	1.000233
4400.0	332.0	-18.4	93.2	836.5	653.7	211.9	9.5	1.000232
4500.0	319.5	-19.3	93.1	833.8	653.5	211.7	9.7	1.000231
4600.0	307.0	-20.2	93.0	831.1	653.2	211.6	9.8	1.000230
4700.0	294.5	-21.1	93.1	828.4	652.9	211.4	9.9	1.000229
4800.0	282.0	-22.0	93.1	825.7	652.7	211.3	10.1	1.000227
4900.0	269.5	-22.9	93.1	823.0	652.4	211.2	10.1	1.000226

UPPER AIR DATA  
25/0130116  
LC-37

STATION ALTITUDE 4051.77 FEET MSL  
14 SEP 55 1119 MDT  
ASCENSION NO. 110

GEODETIC COORDINATES  
32.60175 LAT DEG  
106.31252 LON DEG

TABLE 15 Con't

GEOMETRIC ALTITUDE ASL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	WET-BULB POINT TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
1000.0	663.1	5.7	4.7	93.5	824.5	652.1	212.5	10.0	1.000225
1100.0	660.7	5.5	4.5	93.4	822.1	651.9	213.4	9.9	1.000224
1200.0	658.2	5.3	4.3	93.5	819.7	651.6	214.3	9.8	1.000223
1300.0	655.6	5.0	4.1	93.5	817.3	651.3	215.3	9.8	1.000222
1400.0	653.4	4.8	3.9	93.6	815.0	651.1	216.3	9.7	1.000221
1500.0	650.9	4.6	3.7	93.7	812.5	650.8	217.2	9.6	1.000220
1600.0	648.5	4.4	3.5	93.8	810.3	650.5	218.2	9.5	1.000219
1700.0	646.1	4.2	3.3	93.9	807.9	650.3	219.2	9.5	1.000218
1800.0	643.7	4.0	3.1	92.9	805.6	650.0	221.4	9.3	1.000217
1900.0	641.3	3.8	2.9	93.4	803.1	649.8	223.8	9.2	1.000216
2000.0	638.9	3.7	2.6	90.1	799.9	649.9	226.2	9.1	1.000214
2100.0	636.6	4.0	2.0	86.8	796.8	649.9	228.7	9.0	1.000212
2200.0	634.2	4.1	1.6	83.5	793.5	650.0	231.7	8.9	1.000211
2300.0	631.8	4.2	1.1	80.3	790.5	650.1	233.0	8.8	1.000209
2400.0	629.5	4.3	.6	77.0	787.4	650.1	236.6	8.8	1.000207
2500.0	627.1	4.4	.1	73.7	784.3	650.2	239.2	8.7	1.000205
2600.0	624.8	4.2	-.1	73.1	781.8	650.0	241.7	8.5	1.000204
2700.0	622.4	4.0	-.3	73.3	779.5	649.6	243.8	8.9	1.000203
2800.0	620.1	3.8	-.5	73.5	777.2	649.5	245.8	9.0	1.000202
2900.0	617.9	3.6	-.7	73.6	774.9	649.2	247.8	9.1	1.000201
3000.0	615.4	3.4	-.8	73.8	772.5	649.0	249.7	9.2	1.000201
3100.0	613.1	3.2	-1.0	74.0	770.2	648.7	251.5	9.4	1.000200
3200.0	610.8	2.9	-1.2	74.1	768.1	648.4	253.7	9.5	1.000199
3300.0	608.5	2.7	-1.4	74.3	765.9	648.2	255.1	9.7	1.000198
3400.0	606.2	2.5	-1.6	74.5	763.6	647.9	256.7	9.9	1.000197
3500.0	604.0	2.3	-1.8	74.7	761.3	647.6			1.000197
3600.0	601.7	2.1	-1.9	74.8	759.1	647.4			1.000196
3700.0	599.4	1.9	-2.1	75.0	756.9	647.1			1.000195
3800.0	597.2	1.6	-2.3	75.2	754.6	646.9			1.000194
3900.0	594.9	1.4	-2.5	75.3	752.4	646.6			1.000193
4000.0	592.7	1.2	-2.6	75.5	750.2	646.3			1.000192
4100.0	590.5	1.0	-2.8	75.7	748.0	646.1			1.000192
4200.0	588.3	.8	-3.0	75.6	745.8	645.8			1.000191
4300.0	586.1	.6	-3.2	75.0	743.6	645.5			1.000190
4400.0	583.8	.5	-3.4	76.2	741.4	645.3			1.000189
4500.0	581.7	.1	-3.5	76.4	739.2	645.0			1.000189
4600.0	579.5	-.1	-3.7	76.5	737.0	644.7			1.000188
4700.0	577.2	-.3	-3.9	76.7	734.8	644.5			1.000187
4800.0	575.1	-.5	-4.1	76.9	732.7	644.2			1.000186

STATION ALTITUDE 4051.77 FEET MSL  
14 SEP. 60  
ASCENSION NO. 116 1119 MDT

MANDATORY LEVELS  
2570180116  
LC-37  
Table 16

GEODETIC COORDINATES  
32.40175 LAT DEG  
104.31222 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES (TN)	SPEED KNOTS	
759.0	5126.	20.3	13.5	65.	147.8	4.0	
700.0	6843.	15.6	12.0	84.	147.7	6.1	
700.0	8633.	11.6	10.9	96.	197.5	6.9	
700.0	10523.	8.8	7.9	94.	213.5	8.7	
450.0	12526.	4.5	3.6	94.	217.6	9.6	
400.0	14603.	1.9	-2.1	75.			

L MED  
- 8